Panasonic

PT-L6600E/EL
PT-L6500E/EL
BriteOptic™ LCD Projectors

PAL/PAL-M/PAL-N/SECAM/NTSC/M-NTSC

BriteOptic™
Dual Lamp System

Raising the Ceiling on Performance

- New BriteOptic™ Dual Lamp System offers brightness of 3,600 ANSI lumens
- SXGA/XGA native, UXGA maximum resolution
- A host of terminals, including DVI (Digital RGB in/out)
- Easy setup and maintenance
- Lens shift, auto setup, and digital keystone correction

The difference is your image™

Centre-mounted lens

Centred on Quality

Panasonic's PT-L6600E/EL and PT-L6500E/EL LCD projectors incorporate our highly acclaimed BriteOptic™ Dual Lamp system, which delivers high-definition images with superb brightness.

Specifically designed with extensive user input, we began by making key improvements to the system engine, then devised a symmetrical design that places the lens directly in the unit's center, for easier image positioning. We also incorporated the latest DSP technology that assures precise, consistent performence.

The result: a series of projectors that deliver ultra-bright, beautiful images while greatly improving setup and maintenance ease.

See how brilliant your presentations look when delivered through Panasonic PT-L6600E/EL and PT-L6500E/EL projectors.

BriteOptic™
Dual Lamp System

Wide Variety: Choose the BriteOptic™ Projector that Best Meets Your Needs

PT-L6600E

SXGA Projector

- Ultrabright 3600 ANSI lumens
- New BriteOptic™ technology and UHM™ lamps
- True SXGA (1280 x 1024), maximum UXGA (1600 x 1200) resolution
- Intelligent Image Resizing for VGA/SVGA/SXGA/Mac displays
- Multiple terminals, including digital video interface (DVI)
- Easy installation and maintenance
- Stackable for double brightness (up to 7200 ANSI lumens)

PT-L6500E

XGA Projector

Ultrabright 3600 ANSI lumens

- New BriteOptic™ technology and UHM™ lamps
- True XGA (1024 x 768), maximum UXGA (1600 x 1200) resolution
- Intelligent Image Resizing for VGA/SVGA/SXGA/Mac displays
- Multiple terminals, including digital video interface (DVI)
- Easy installation and maintenance
- Stackable for double brightness (up to 7200 ANSI lumens)

PT-L6600EL/L6500EL

The PT-L6600EL/L6500EL delivers the same superior performance as the PT-L6600E and PT-L6500E, respectively, but come with no lens. Combine them with an optional lens to get the exact performance you need according to usage and operating conditions.

A Host of Panasonic's Leading Technologies

Ultrahigh Brightness and Contrast

Panasonic's advanced BriteOptic™ Dual Lamp System delivers both 3,600 ANSI lumens of brightness and superior colour reproducibility. A corrective film is used to compensate for phase shifts in the light incident to the LCD panel, helping obtain a high contrast ratio. The result is reproduction of crisp, clear, super-bright images with outstanding depth.

High Resolution & Intelligent Image Resizing

The PT-L6600E/L6600EL offers true SXGA resolution (UXGA max.) and the PT-L6500E/L6500EL gives true XGA resolution (UXGA max.), allowing display of detailed computer graphics and text. When displaying images of other types, the signals are expanded or compressed through a digital processing system. This assures smooth outlines and outstanding picture definition with all types of images.

Flexible Connection

The PT-L6600E/EL and PT-L6500E/EL are equipped with a digital video interface (DVI), which lets you connect with PCs for full digital image processing. You can also input signals from digital TV and DVD sources.

Installation Options

Two ceiling mount brackets are available, one for high ceilings and one for lower ceilings. A bracket and a simpler stacking mount are also available, for quick, easy, temporary stacking of two units.

Easy Setup and Maintenance

The PT-L6600E/EL and PT-L6500E/EL feature a symmetrical design that places the lens right at the centre, making it easier to position the projector and screen. Maintenance is easier too, thanks to a design that lets you replace a lamp without removing the projector from the bracket in either the ceiling-mounted or dual stacking configuration.

Lamps can be easily replaced.

A Host of Uses

The PT-L6600E/EL and PT-L6500E/EL provide the quality and performance needed in almost any application. Use them in meeting rooms, theaters, museums, convention halls, public spaces, schools, research labs—anyplace where bright, beautiful images are a plus. Also, the superb resolution made possible by digital RGB input delivers images with exceptional detail and accuracy. This makes these projectors suitable for use as main systems for monitoring traffic or electric power, or in operation centres such as police, fire, air traffic control, and space development centres.

One-Touch Auto Setup

This function automatically identifies the signal mode of the input source and adjusts the image accordingly. You get optimal viewing quality, with no additional software, equipment or manual adjustment necessary.

Lens Shift

Shift the projected image vertically even after the projector is set in position. The PT-L6600E/L6500E has a great adjustment range, and the image remains distortion free.

Increased Reliability

These projectors have a long lamp life of 3,000 hours (at dual lamp operation in standard mode). With BriteOptic™ Dual Lamp System, even if one lamp burns out, the remaining lamp provides sufficient brightness. This offers you the peace of mind that comes with the reliability of virtual-zero downtime.

Options for More Flexible Installation

ET-LE050
Fixed-focus short-throw (wide) lens
- Screen size: 40″ to 60″
- Throw distance: Approx. 0.55 m to 0.86 m

ET-LE200
Medium-throw (wide) lens
- Screen size: 30″ to 300″
- Throw distance: Approx. 2.1 m to 26.7 m

ET-LE101
Short-Throw (Wide) Lens
- Screen size: 30″ to 300″
- Throw distance: Approx. 1.1 m to 11.0 m

ET-LE300
Long-throw (tele) lens
- Screen size: 30″ to 300″
- Throw distance: Approx. 3.6 m to 35.4 m

ET-PKL6500
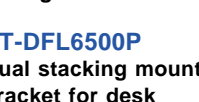**Ceiling mount bracket for high ceilings**

ET-PKL6500S
Ceiling mount bracket for low ceilings

ET-DFL6500
Dual stacking mount bracket for desk/ceiling mount

ET-RMRC1
Wireless remote receiver

ET-LAL6500
Replacement lamp unit

ET-LAL6500W
Replacement lamp units (twin pack of ET-LAL6500 lamp units)

ET-SCDV03
DVI cable (3 m)

ET-DFL6500P
Dual stacking mount bracket for desk
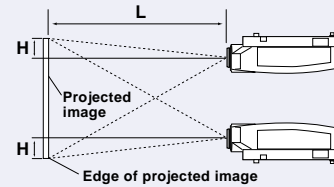
Other Valuable Features

- Advanced shutter function: Minimizes distracting light leakage, as well as noise and power consumption, when the image is muted.
- Digital zoom: Portions of the image can be enlarged to 3x in steps of 0.1x.
- Freeze Frame: Moving pictures can be frozen at any time and projected as still pictures.
- Exhaust duct with noise cancel system achieves quiet 36-dB operation (with lamp power at Normal).
- LCD panels with micro lens array (MLA) for extra brightness (for the PT-L6600E/L6600EL only).
- Centre-to-corner uniformity ratio (CCR) of over 90%
- Wireless remote with mouse control
- Lightweight and durable magnesium-alloy cabinet
- Power zoom/focus lens capable of projecting a 30˝ to 300˝ diagonal image
- Ceiling/desk, front/rear projection capable
- RS-232C computer interface and contact closure remote terminal
- S-Video compatibility
- Motorized retractable lens for lens protection
- Selectable 7-language on-screen menu (English, German, French, Spanish, Italian, Chinese, Japanese)
- Indicators for lamp errors, thermal warnings, and suggested replacement
- Universal AC power supply (auto-voltage: 100–120 V/220–240 V)
- Built-in stereo amplifier and speakers (3W + 3W) for true multimedia applications

Wireless remote control

Projection setting example

L : Projection distance when mounted with the ET-PKL6500. (Projection size is adjustable.)

H : Height from upper/lower edge of projected image to center of lens. (Position of a projected image can be easily adjusted by using lens shift function.)

PT-L6600E/L6500E

Projection size (W x H) * inches: diagonally	L		H	
40 inches (813 x 610 mm)	1.4 – 1.9 m	(4´8˝ – 6´4˝)	0.030 – 0.30 m	(1-3/16˝ – 11-13/16˝)
60 inches (1,219 x 914 mm)	2.1 – 2.9 m	(6´11˝ – 9´8˝)	0.045 – 0.45 m	(1-3/4˝ – 1´16˝)
100 inches (2,032 x 1,524 mm)	3.6 – 4.8 m	(11´1˝ – 15´9˝)	0.076 – 0.76 m	(2˝ – 2´6˝)
160 inches (3,251 x 2,438 mm)	5.8 – 7.8 m	(19´ – 25´7˝)	0.121 – 1.21 m	(4-3/4˝ – 4´)
220 inches (4,470 x 3,353 mm)	8.1 – 10.7 m	(26´7˝ – 35´1˝)	0.167 – 1.67 m	(6-9/16˝ – 5´6˝)
300 inches (6,096 x 4,572 mm)	11.0 – 14.6 m	(36´1˝ – 47´11˝)	0.228 – 2.28 m	(9˝ – 7´6˝)

PT-L6600EL/L6500EL with the ET-LE050 fixed short-throw (wide) lens

Projection size (W x H) * inches: diagonally	L		H	
40 inches (813 x 610 mm)	0.55 m	(1´10˝)	0.305 m	(1´)
50 inches (1,016 x 762 mm)	0.70 m	(2´4˝)	0.381 m	(1´3˝)
60 inches (1,219 x 914 mm)	0.86 m	(2´10˝)	0.457 m	(1´6˝)

PT-L6600EL/L6500EL with the ET-LE101 short-throw (wide) lens

Projection size (W x H) * inches: diagonally	L		H	
40 inches (813 x 610 mm)	1.1 – 1.4 m	(3´7˝ – 4´8˝)	0.030 – 0.30 m	(1-3/16˝ – 11-13/16˝)
60 inches (1,219 x 914 mm)	1.6 – 2.1 m	(5´2˝ – 7´)	0.045 – 0.45 m	(1-3/4˝ – 1´16˝)
100 inches (2,032 x 1,524 mm)	2.7 – 3.6 m	(8´11˝ – 11´11˝)	0.076 – 0.76 m	(2˝ – 2´6˝)
160 inches (3,251 x 2,438 mm)	4.4 – 5.8 m	(14´5˝ – 19´)	0.121 – 1.21 m	(4-3/4˝ – 4´)
220 inches (4,470 x 3,353 mm)	6.1 – 8.1 m	(20´ – 26´7˝)	0.167 – 1.67 m	(6-9/16˝ – 5´6˝)
300 inches (6,096 x 4,572 mm)	8.4 – 11.0 m	(27´7˝ – 36´1˝)	0.228 – 2.28 m	(9˝ – 7´6˝)

PT-L6600EL/L6500EL with the ET-LE200 medium-throw (tele) lens

Projection size (W x H) * inches: diagonally	L		H	
40 inches (813 x 610 mm)	2.1 – 3.4 m	(6´11˝ – 11´2˝)	0.030 – 0.30 m	(1-3/16˝ – 11-13/16˝)
60 inches (1,219 x 914 mm)	3.1 – 5.2 m	(10´3˝ – 17´)	0.045 – 0.45 m	(1-3/4˝ – 1´16˝)
100 inches (2,032 x 1,524 mm)	5.4 – 8.7 m	(17´9˝ – 28´7˝)	0.076 – 0.76 m	(2˝ – 2´6˝)
160 inches (3,251 x 2,438 mm)	8.6 – 14.1 m	(28´3˝ – 46.3˝)	0.121 – 1.21 m	(4-3/4˝ – 4´)
220 inches (4,470 x 3,353 mm)	11.9 – 19.5 m	(39´ – 64´)	0.167 – 1.67 m	(6-9/16˝ – 5´6˝)
300 inches (6,096 x 4,572 mm)	16.3 – 26.6 m	(53´6˝ – 87.4˝)	0.228 – 2.28 m	(9˝ – 7´6˝)

PT-L6600EL/L6500EL with the ET-LE300 long-throw (tele) lens

Projection size (W x H) * inches: diagonally	L		H	
30 inches (610 x 457 mm)	2.7 – 3.6 m	(8´10˝ – 11´9˝)	0.022 – 0.22 m	(7/8˝ – 8-11/16˝)
60 inches (1,219 x 914 mm)	5.4 – 7.1 m	(17´8˝ – 23´3˝)	0.045 – 0.45 m	(1-3/4˝ – 1´16˝)
100 inches (2,032 x 1,524 mm)	8.9 – 11.8 m	(29´2˝ – 38´8˝)	0.076 – 0.76 m	(2˝ – 2´6˝)
160 inches (3,251 x 2,438 mm)	14.3 – 18.9 m	((46´11˝ – 62´)	0.121 – 1.21 m	(4-3/4˝ – 4´)
220 inches (4,470 x 3,353 mm)	19.6 – 26.0 m	(64´4˝ – 85´4˝)	0.167 – 1.67 m	(6-9/16˝ – 5´6˝)
300 inches (6,096 x 4,572 mm)	26.7 – 35.4 m	(87´7˝ – 116´)	0.228 – 2.28 m	(9˝ – 7´6˝)

Terminals

Front view

Compatible graphic modes

VGA400	fH	fv
640 x 400	24.8	56.4
	31.5	70.1

VGA480	fH	fv
640 x 480	31.5	59.9
	35.0	66.7
	37.9	72.8
	37.5	75.0
	43.3	85.0

SVGA	fH	fv
800 x 600	32.1	51.0
	35.2	56.3
	37.9	60.3
	48.1	72.1
	46.9	75.0
	53.7	85.1

XGA	fH	fv
1024 x 768	48.4	60.0
	56.5	70.1
	60.0	75.0
	65.5	81.6
	68.7	85.0
	80.0	100.8
	94.0	1200.0
1024 x 768i	35.5	86.8

MXGA	fH	fv
1152 x 864	63.9	70.0
	67.5	75.0
	77.1	85.0
1120 x 750	50.1	60.1
1120 x 750i	32.6	80.0

SXGA	fH	fv
1280 x 1024	52.4	50.0
	64.0	60.0
	72.4	66.3
	78.2	71.7
	80.0	75.0
	91.2	**85.0**
1280 x 1024i	46.2	86.0
	47.6	88.9

UXGA	fH	fv
1600 x 1200	75.0	60.0
	87.5	70.0
	93.8	75.0

Mac 16˝	fH	fv
832 x 624	49.7	74.6

Mac 21˝	fH	fv
1152 x 870	68.6	75.0

NTSC	fH	fv
768 x 480i	15.7	59.9

PAL	fH	fv
768 x 576i	15.6	50.0

480p	fH	fv
720 x 483	31.5	59.9

720p	fH	fv
1280 x 720	45.0	60.0

HDTV	fH	fv
1920 x 1035i	33.8	60.0

fH : Horizontal frequency (kHz)
fv : Vertical frequency (Hz)
italic: interlaced signals
bold: For the PT-L6600E/L6600EL only

NOTE:
The display resolution of the PT-L6600E/L6600EL is 1366 x 1024 pixels. The input signal other than SXGA (1280 x 1024 pixels) will be converted to 1366 x 1024 pixels. When the input signal is SXGA (1280 x 1024 pixels), it will be projected as it is without being converted. The display resolution of the PT-L6500E/L6500EL is 1024 x 768 pixels. If the display resolution indicated in the above data does not match this resolution, the input signal will be converted to 1024 x 768 pixels.

Control panel (Photo shows the PT-L6600E/L6500E. Controls of the PT-L6600EL/L6500EL are slightly different.)

Specifications

	PT-L6600E	PT-L6500E	PT-L6600EL	PT-L6500EL
Power supply:	100–240 V AC, 50/60 Hz			
Power consumption:	600 W (during standby mode with fan stopped: Max. 10 W)			
Max amps:	5.0 A			
Colour system:	PAL/PAL-M/PAL-N/SECAM/NTSC/M-NTSC			
LCD panel:	1.3˝ (diagonal) with MLA	1.3˝ (diagonal)	1.3˝ (diagonal) with MLA	1.3˝ (diagonal)
Display method:	Transparent LCD panels (x 3)			
Drive method:	Active matrix			
Pixels:	1,398,784 (1,366 x 1,024) x 3	786,432 (1,024 x 768) x 3	1,398,784 (1,366 x 1,024) x 3	786,432 (1,024 x 768) x 3
Pixel configuration:	Stripe			
Lens:	Power zoom/focus lens (1:1–1:1.3)		(option)	
	F 1.7–2.3, f 49.1–63.8 mm		(option)	
Lamp:	DC type 220 W UHM™ lamps (x 2)			
Colours:	Full colour (16,777,216 colours)			
Brightness:	3600 ANSI lumens			
CCR:	90%			
Contrast:	400:1 (full field)	600:1 (full field)	400:1 (full field)	600:1 (full field)
Resolution:				
RGB:	1366 x 1024 pixels	1024 x 768 pixels	1366 x 1024 pixels	1024 x 768 pixels
Video:	1000 TV lines	760 TV lines	1000 TV lines	760 TV lines
Scanning frequency:				
S-Video/Video:	Horizontal: 15.75/15.63 kHz, Vertical: 50/60 Hz			
RGB:	Horizontal: 24–97 kHz, Vertical: 50–120 Hz			
Screen size:	7.62–76.2 m (30–300 inches) diagonally			
Throw distance:	1.4–14.6 m (4´8˝–47´11˝)		(option)	
Optical axis shift:	10/10–1/19			
Installation:	Ceiling/desk, front/rear (menu selection)			
Built-in speakers:				
Size:	7 x 4 cm (2-3/4˝ x 1-9/16˝) (x 2)			
Output power:	6 W (3 W + 3 W) (10% THD)			
On-screen display languages:	English, German, French, Spanish, Italian, Chinese, Japanese			
Terminals:				
RGB/YUV in:	D-sub HD 15-pin x 1, 5 BNC x 1			
RGB out:	D-sub HD 15-pin x 1			
Digital RGB in:	DVI-D 24-pin x 1			
Digital RGB out:	DIV-D 24-pin x 1			
S-Video in:	Mini DIN 4-pin x 1			
Video in:	BNC x 1			
Video out:	BNC x 1			
Video audio in:	RCA jack (L, R) x 1			
RGB audio in:	M3 (L, R) x 1			
audio monitor out:	M3 (L, R) x 1			
RS-232C in:	D-sub 9-pin x 1			
RS-232C out:	D-sub 9-pin x 1			
Contact closure:	D-sub 9-pin x 1			
USB in:	Type B x 1 (up, for mouse)			
USB out:	Type A x 1 (down, for USB hub)			
Wired remote in:	M3 x 1			
Wired remote out:	M3 x 1			
Noise level:	36 dB (at standard mode)			
Dimensions (W x H x D):	495 x 179 x 495 mm (19-15/32˝ x 7-1/16˝ x 19-15/32˝)			
Weights:	13.8 kg (30.5 lbs.)		12.6 kg (27.8 lbs)	
Operating temperature:	0°–40°C (32°–104°F)			
Operating humidity:	20%–80% (no condensation)			
Safety regulation:	UL1950, C-UL, FCC			
Remote Control Unit				
Power supply:	3 V DC (AA-size battery x 2)			
Operation range:	Approx. 7 m (23´) when operated from directly in front of the signal receptor			
Weight:	Approx. 102 g (0.225 lbs.) (including batteries)			
Dimensions (W x H x D):	46 x 34 x 190 mm (1-13/16˝ x 1-11/32˝ x 7-15/32˝)			
Supplied accessories:	Wireless/wired remote control unit, Cable for remote control unit (15 m), Remote control adapter plug, Batteries for remote control unit, Power cord, VGA cable, USB cable, Exhaust guide			
Optional accessories:	Replacement lamp unit: ET-LAL6500 (single lamp), ET-LAL6500W (set of two lamps) Ceiling mount bracket: ET-PKL6500 (for high ceilings), ET-PKL6500S (for low ceilings) Dual stacking mount bracket: ET-DFL6500 (for desk/ceiling mount), Dual stacking mount bracket: ET-DFL6500P (for desk mount), DVI cable: ET-SCDV03, Wireless remote receiver: ET-RMRC1			

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